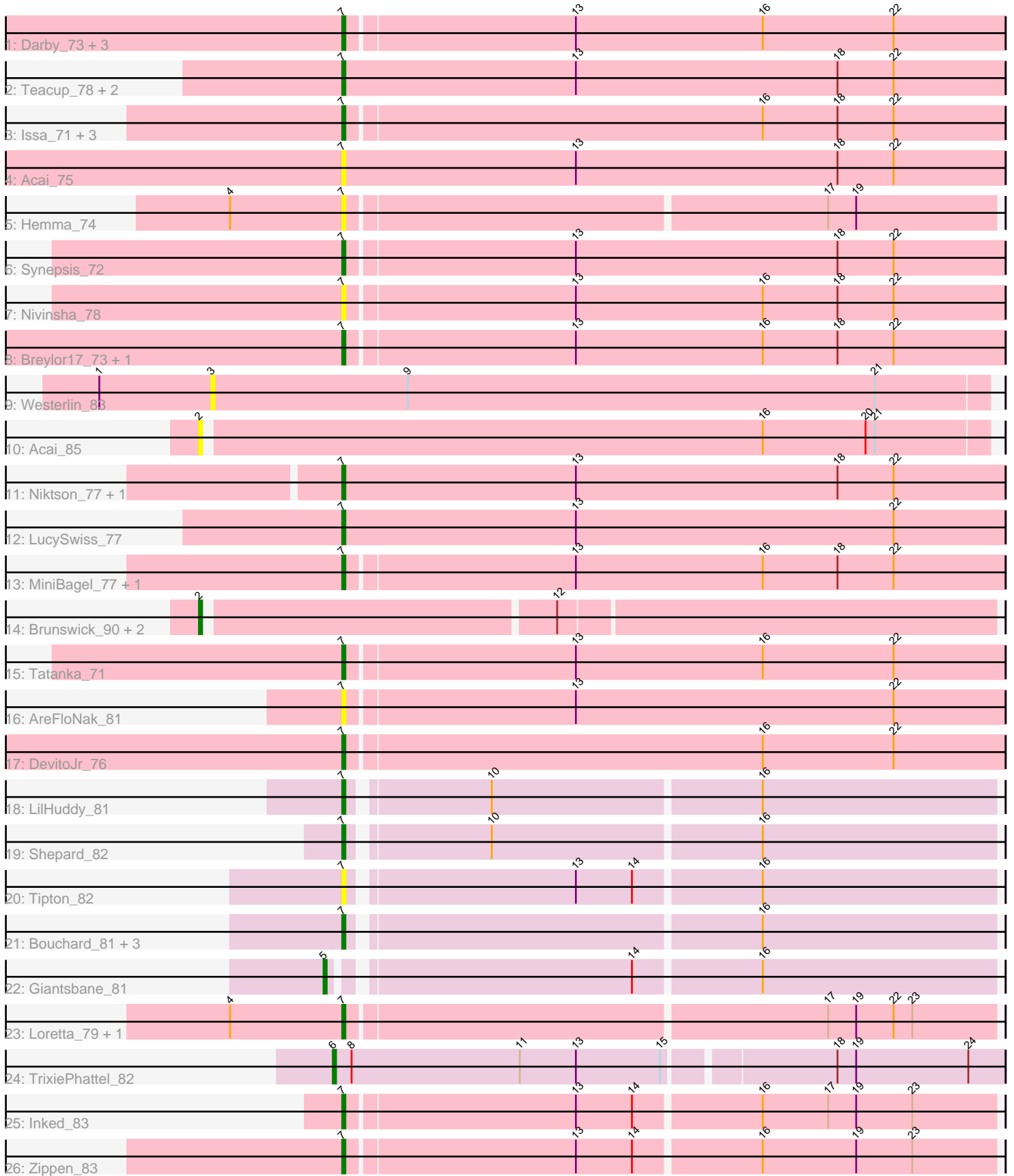


Pham 296709



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 296709 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296709 has 43 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Darby_73, ScienceWizSam_78, Gordon_73, CastorTray_79
- Track 2 : Teacup_78, Brunswick_78, Nightmare_78
- Track 3 : Issa_71, Dinallo_71, CapnMurica_73, Tenno_76
- Track 4 : Acai_75
- Track 5 : Hemma_74
- Track 6 : Synopsis_72
- Track 7 : Nivinsha_78
- Track 8 : Breylor17_73, Trustiboi_75
- Track 9 : Westerlin_83
- Track 10 : Acai_85
- Track 11 : Niktson_77, ElephantMan_77
- Track 12 : LucySwiss_77
- Track 13 : MiniBagel_77, Westerlin_74
- Track 14 : Brunswick_90, Issa_80, LucySwiss_90
- Track 15 : Tatanka_71
- Track 16 : AreFloNak_81
- Track 17 : DevitoJr_76
- Track 18 : LilHuddy_81
- Track 19 : Shepard_82
- Track 20 : Tipton_82
- Track 21 : Bouchard_81, Tokki_87, Chlochlo_82, Phaby_83
- Track 22 : Giantsbane_81
- Track 23 : Loretta_79, Ingrid_83
- Track 24 : TrixiePhattel_82
- Track 25 : Inked_83
- Track 26 : Zippen_83

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 7, it was called in 29 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acai_75, AreFloNak_81, Bouchard_81, Breylor17_73, Brunswick_78, CapnMurica_73, CastorTray_79, Chlochlo_82, Darby_73, DevitoJr_76, Dinallo_71, ElephantMan_77, Gordon_73, Hemma_74, Ingrid_83, Inked_83, Issa_71, LilHuddy_81, Loretta_79, LucySwiss_77, MiniBagel_77, Nightmare_78, Niktson_77, Nivinsha_78, Phaby_83, ScienceWizSam_78, Shepard_82, Synepsis_72, Tatanka_71, Teacup_78, Tenno_76, Tipton_82, Tokki_87, Trustiboi_75, Westerlin_74, Zippen_83,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

- Acai_85, Brunswick_90, Giantsbane_81, Issa_80, LucySwiss_90, TrixiePhattel_82, Westerlin_83,

Summary by start number:

Start 2:

- Found in 4 of 43 (9.3%) of genes in pham
- Manual Annotations of this start: 3 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acai_85 (AU1), Brunswick_90 (AU1), Issa_80 (AU1), LucySwiss_90 (AU1),

Start 3:

- Found in 1 of 43 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Westerlin_83 (AU1),

Start 5:

- Found in 1 of 43 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Giantsbane_81 (AU2),

Start 6:

- Found in 1 of 43 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TrixiePhattel_82 (AU6),

Start 7:

- Found in 36 of 43 (83.7%) of genes in pham
- Manual Annotations of this start: 29 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acai_75 (AU1), AreFloNak_81 (AU1), Bouchard_81 (AU2), Breylor17_73 (AU1), Brunswick_78 (AU1), CapnMurica_73 (AU1), CastorTray_79 (AU1), Chlochlo_82 (AU2), Darby_73 (AU1), DevitoJr_76 (AU1), Dinallo_71 (AU1), ElephantMan_77 (AU1), Gordon_73 (AU1), Hemma_74 (AU1), Ingrid_83 (AU3), Inked_83 (AU7), Issa_71 (AU1), LilHuddy_81 (AU2), Loretta_79 (AU3), LucySwiss_77 (AU1), MiniBagel_77 (AU1), Nightmare_78 (AU1), Niktson_77 (AU1), Nivinsha_78 (AU1), Phaby_83 (AU2), ScienceWizSam_78 (AU1),

Shepard_82 (AU2), Synepsis_72 (AU1), Tatanka_71 (AU1), Teacup_78 (AU1), Tenno_76 (AU1), Tipton_82 (AU2), Tokki_87 (AU2), Trustiboi_75 (AU1), Westerlin_74 (AU1), Zippen_83 (AU7),

Summary by clusters:

There are 5 clusters represented in this pham: AU1, AU3, AU2, AU7, AU6,

Info for manual annotations of cluster AU1:

- Start number 2 was manually annotated 3 times for cluster AU1.
- Start number 7 was manually annotated 19 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 5 was manually annotated 1 time for cluster AU2.
- Start number 7 was manually annotated 6 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 7 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU6:

- Start number 6 was manually annotated 1 time for cluster AU6.

Info for manual annotations of cluster AU7:

- Start number 7 was manually annotated 2 times for cluster AU7.

Gene Information:

Gene: Acai_75 Start: 50664, Stop: 50876, Start Num: 7

Candidate Starts for Acai_75:

(Start: 7 @50664 has 29 MA's), (13, 50739), (18, 50823), (22, 50841),

Gene: Acai_85 Start: 53254, Stop: 53502, Start Num: 2

Candidate Starts for Acai_85:

(Start: 2 @53254 has 3 MA's), (16, 53431), (20, 53464), (21, 53467),

Gene: AreFloNak_81 Start: 50522, Stop: 50731, Start Num: 7

Candidate Starts for AreFloNak_81:

(Start: 7 @50522 has 29 MA's), (13, 50594), (22, 50696),

Gene: Bouchard_81 Start: 51329, Stop: 51529, Start Num: 7

Candidate Starts for Bouchard_81:

(Start: 7 @51329 has 29 MA's), (16, 51455),

Gene: Breylor17_73 Start: 50912, Stop: 51121, Start Num: 7

Candidate Starts for Breylor17_73:

(Start: 7 @50912 has 29 MA's), (13, 50984), (16, 51044), (18, 51068), (22, 51086),

Gene: Brunswick_78 Start: 50656, Stop: 50868, Start Num: 7

Candidate Starts for Brunswick_78:

(Start: 7 @50656 has 29 MA's), (13, 50731), (18, 50815), (22, 50833),

Gene: Brunswick_90 Start: 53603, Stop: 53848, Start Num: 2

Candidate Starts for Brunswick_90:

(Start: 2 @53603 has 3 MA's), (12, 53711),

Gene: CapnMurica_73 Start: 50988, Stop: 51197, Start Num: 7

Candidate Starts for CapnMurica_73:

(Start: 7 @50988 has 29 MA's), (16, 51120), (18, 51144), (22, 51162),

Gene: CastorTray_79 Start: 51040, Stop: 51249, Start Num: 7

Candidate Starts for CastorTray_79:

(Start: 7 @51040 has 29 MA's), (13, 51112), (16, 51172), (22, 51214),

Gene: Chlochlo_82 Start: 50848, Stop: 51048, Start Num: 7

Candidate Starts for Chlochlo_82:

(Start: 7 @50848 has 29 MA's), (16, 50974),

Gene: Darby_73 Start: 50086, Stop: 50295, Start Num: 7

Candidate Starts for Darby_73:

(Start: 7 @50086 has 29 MA's), (13, 50158), (16, 50218), (22, 50260),

Gene: DevitoJr_76 Start: 50468, Stop: 50677, Start Num: 7

Candidate Starts for DevitoJr_76:

(Start: 7 @50468 has 29 MA's), (16, 50600), (22, 50642),

Gene: Dinallo_71 Start: 51234, Stop: 51443, Start Num: 7

Candidate Starts for Dinallo_71:

(Start: 7 @51234 has 29 MA's), (16, 51366), (18, 51390), (22, 51408),

Gene: ElephantMan_77 Start: 51249, Stop: 51461, Start Num: 7

Candidate Starts for ElephantMan_77:

(Start: 7 @51249 has 29 MA's), (13, 51324), (18, 51408), (22, 51426),

Gene: Giantsbane_81 Start: 49891, Stop: 50094, Start Num: 5

Candidate Starts for Giantsbane_81:

(Start: 5 @49891 has 1 MA's), (14, 49981), (16, 50020),

Gene: Gordon_73 Start: 50882, Stop: 51091, Start Num: 7

Candidate Starts for Gordon_73:

(Start: 7 @50882 has 29 MA's), (13, 50954), (16, 51014), (22, 51056),

Gene: Hemma_74 Start: 48302, Stop: 48505, Start Num: 7

Candidate Starts for Hemma_74:

(4, 48266), (Start: 7 @48302 has 29 MA's), (17, 48452), (19, 48461),

Gene: Ingrid_83 Start: 50857, Stop: 51060, Start Num: 7

Candidate Starts for Ingrid_83:

(4, 50821), (Start: 7 @50857 has 29 MA's), (17, 51007), (19, 51016), (22, 51028), (23, 51034),

Gene: Inked_83 Start: 51558, Stop: 51761, Start Num: 7

Candidate Starts for Inked_83:

(Start: 7 @51558 has 29 MA's), (13, 51630), (14, 51648), (16, 51687), (17, 51708), (19, 51717), (23, 51735),

Gene: Issa_71 Start: 50059, Stop: 50268, Start Num: 7
Candidate Starts for Issa_71:
(Start: 7 @50059 has 29 MA's), (16, 50191), (18, 50215), (22, 50233),

Gene: Issa_80 Start: 52854, Stop: 53099, Start Num: 2
Candidate Starts for Issa_80:
(Start: 2 @52854 has 3 MA's), (12, 52962),

Gene: LilHuddy_81 Start: 51056, Stop: 51256, Start Num: 7
Candidate Starts for LilHuddy_81:
(Start: 7 @51056 has 29 MA's), (10, 51098), (16, 51182),

Gene: Loretta_79 Start: 50857, Stop: 51060, Start Num: 7
Candidate Starts for Loretta_79:
(4, 50821), (Start: 7 @50857 has 29 MA's), (17, 51007), (19, 51016), (22, 51028), (23, 51034),

Gene: LucySwiss_77 Start: 50317, Stop: 50529, Start Num: 7
Candidate Starts for LucySwiss_77:
(Start: 7 @50317 has 29 MA's), (13, 50392), (22, 50494),

Gene: LucySwiss_90 Start: 53700, Stop: 53945, Start Num: 2
Candidate Starts for LucySwiss_90:
(Start: 2 @53700 has 3 MA's), (12, 53808),

Gene: MiniBagel_77 Start: 50992, Stop: 51201, Start Num: 7
Candidate Starts for MiniBagel_77:
(Start: 7 @50992 has 29 MA's), (13, 51064), (16, 51124), (18, 51148), (22, 51166),

Gene: Nightmare_78 Start: 51419, Stop: 51631, Start Num: 7
Candidate Starts for Nightmare_78:
(Start: 7 @51419 has 29 MA's), (13, 51494), (18, 51578), (22, 51596),

Gene: Niktson_77 Start: 51249, Stop: 51461, Start Num: 7
Candidate Starts for Niktson_77:
(Start: 7 @51249 has 29 MA's), (13, 51324), (18, 51408), (22, 51426),

Gene: Nivinsha_78 Start: 50523, Stop: 50732, Start Num: 7
Candidate Starts for Nivinsha_78:
(Start: 7 @50523 has 29 MA's), (13, 50595), (16, 50655), (18, 50679), (22, 50697),

Gene: Phaby_83 Start: 51533, Stop: 51733, Start Num: 7
Candidate Starts for Phaby_83:
(Start: 7 @51533 has 29 MA's), (16, 51659),

Gene: ScienceWizSam_78 Start: 50641, Stop: 50850, Start Num: 7
Candidate Starts for ScienceWizSam_78:
(Start: 7 @50641 has 29 MA's), (13, 50713), (16, 50773), (22, 50815),

Gene: Shepard_82 Start: 50925, Stop: 51125, Start Num: 7
Candidate Starts for Shepard_82:
(Start: 7 @50925 has 29 MA's), (10, 50967), (16, 51051),

Gene: Synopsis_72 Start: 50449, Stop: 50658, Start Num: 7

Candidate Starts for Synepsis_72:

(Start: 7 @50449 has 29 MA's), (13, 50521), (18, 50605), (22, 50623),

Gene: Tatanka_71 Start: 50627, Stop: 50836, Start Num: 7

Candidate Starts for Tatanka_71:

(Start: 7 @50627 has 29 MA's), (13, 50699), (16, 50759), (22, 50801),

Gene: Teacup_78 Start: 51310, Stop: 51522, Start Num: 7

Candidate Starts for Teacup_78:

(Start: 7 @51310 has 29 MA's), (13, 51385), (18, 51469), (22, 51487),

Gene: Tenno_76 Start: 51025, Stop: 51234, Start Num: 7

Candidate Starts for Tenno_76:

(Start: 7 @51025 has 29 MA's), (16, 51157), (18, 51181), (22, 51199),

Gene: Tipton_82 Start: 51409, Stop: 51609, Start Num: 7

Candidate Starts for Tipton_82:

(Start: 7 @51409 has 29 MA's), (13, 51478), (14, 51496), (16, 51535),

Gene: Tokki_87 Start: 51338, Stop: 51538, Start Num: 7

Candidate Starts for Tokki_87:

(Start: 7 @51338 has 29 MA's), (16, 51464),

Gene: TrixiePhattel_82 Start: 48318, Stop: 48527, Start Num: 6

Candidate Starts for TrixiePhattel_82:

(Start: 6 @48318 has 1 MA's), (8, 48324), (11, 48378), (13, 48396), (15, 48423), (18, 48474), (19, 48480), (24, 48516),

Gene: Trustiboi_75 Start: 50730, Stop: 50939, Start Num: 7

Candidate Starts for Trustiboi_75:

(Start: 7 @50730 has 29 MA's), (13, 50802), (16, 50862), (18, 50886), (22, 50904),

Gene: Westerlin_83 Start: 54487, Stop: 54735, Start Num: 3

Candidate Starts for Westerlin_83:

(1, 54451), (3, 54487), (9, 54550), (21, 54700),

Gene: Westerlin_74 Start: 51649, Stop: 51858, Start Num: 7

Candidate Starts for Westerlin_74:

(Start: 7 @51649 has 29 MA's), (13, 51721), (16, 51781), (18, 51805), (22, 51823),

Gene: Zippen_83 Start: 51432, Stop: 51635, Start Num: 7

Candidate Starts for Zippen_83:

(Start: 7 @51432 has 29 MA's), (13, 51504), (14, 51522), (16, 51561), (19, 51591), (23, 51609),